

**ABSTRACT**

A pressure sensor for sensing a pressure level of a medium. The pressure  
5 sensor includes a rigid substrate having a medium contacting side and a pressure  
sensitive resistor mounted on the medium contacting side. The resistor exhibits a  
change in resistance in response to pressure changes on the resistor above a  
predetermined threshold. Other embodiments of the invention are shown using a  
wheatstone bridge with pressure sensitive resistors and resistors that are insensitive to  
10 pressure changes.